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is cryptographically ... be processed and the **secure processing** means comprises ...
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System and method for trusted path communications - all 3 versions »
WE Boebert - US Patent 5,499,297, 1996 - Google Patents
... such as workstations, connected over a network to a security server; each data enclave
is assigned a **cryptographic key**. A personal keying **device** having an ...
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Dynamic configuration of a **secure processing** unit for operations in various environments - all 3 versions »
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... are generally known as **Secure Processing** Units (SPUs ... inside the protected boundaries
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[BOOK] Dyad: A System for Using Physically Secure Coprocessors - all 8 versions »
JD Tygar, BS Yee - 1991 - cs.cmu.edu
... Another approach to physically **secure processing** appears in smart-cards [30 ... two secure
coprocessors by using a **key** exchange **cryptographic** protocol and ...
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Data enclave and trusted path system
US Patent 5,502,766, 1996 - patentstorm.us
... 713/189 DATA PROCESSING PROTECTION USING CRYPTOGRAPHY. ... 4888801 Hierarchical **key**
management system Issued on ... The system includes a **secure processing** unit which ...
Cited by 51 - Related Articles - Cached - Web Search

Uniform interface for **cryptographic** services - all 2 versions »
JT Marino Jr, PA Lambert - US Patent 5,029,206, 1991 - Google Patents
... The **secure processing** system includes a processor for ... 40 notifies KSM 20 when the
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B Yee

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J Tygar

R Hauser

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Efficient Permutation Instructions for Fast Software Cryptography - all 14
versions »
QM PROCESSING - IEEE MICRO, 1732 - doi.ieeecs.org
... Permutations play a prominent role in the **secure processing** of information and in ...
permutations, which are useful in symmetric-**key cryptographic** algorithms for ...
Cited by 43 - Related Articles - Web Search

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JD Tygar, BS Yee - 1991 - cs.cmu.edu
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secure
coprocessors by using a **key** exchange **cryptographic** protocol and ...
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[PDF] Using Secure Coprocessors - all 19 versions »
B Yee - 1994 - www-cse.ucsd.edu
... processing. These assumptions may be falsified: for example, attackers may
exhaustively search **cryptographic key** spaces. Similarly ...
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A Van Le, WB Sweet, HC Herbert - US Patent 5,883,956, 1999 - Google Patents
... communication are generally known as **Secure Processing** Units (SPUs ... keys, 3Q and
a
"**cryptographic** engine" for ... Digital Signatures and Public-**Key** Cryptosystems" by ...
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... The invention relates to dam communications systems and, more particularly, to the
secure processing of messages therein using public **key** cryptography. ...
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JT Marino Jr, PA Lambert - US Patent 5,029,206, 1991 - Google Patents
... Asecurity kernel of a **secure processing** system pro- 50 also connected to black memory
5. Processor 1 may vides **cryptographic**, **key** management and system secu- ...
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N Asokan

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N Asokan, N Valtteri - 2004 - freepatentsonline.com
... be used by applications included in a **personal device**. ... cellular telephones and
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N Asokan, JE Ekberg, L Paatero - 2006 - freepatentsonline.com
... the checksum value stored within the **personal device**. ... of state information and **secure
processing** of applications ... portable electronic books, **PDA** devices, gaming ...
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... communication are generally known as **Secure Processing** Units (SPUs ... keys, 3Q and a
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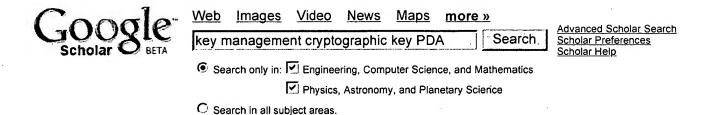JT Marino Jr, PA Lambert - US Patent 5,029,206, 1991 - Google Patents
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F Stajano
D Carman
M Kaminsky
M Kaashoek
E Witchel

Separating **key management** from file system security - all 33 versions »
D Maziores, M Kaminsky, MF Kaashoek, E Witchel - portal.acm.org
... This dialect makes the amount of **cryptographic** computation required from read- only ...
cate through a serial port with a **PDA** that knows ... 2.5.2 User **key management** ...
Cited by 207 - Related Articles - Web Search

[PDF] **Key Management** in Ad Hoc Networks - all 7 versions »
K Fokine - MS Thesis, Linkoping University, Linkoping, Sweden, 2002 -
cchen2.et.ntust.edu.tw
... such infrastructure less networks is how to manage the **cryptographic** keys that are
needed. In order to design practical and efficient **key management** systems it ...
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The Long March to Interoperable Digital Rights **Management** - all 8 versions
»
RH Koenen, J Lacy, M MacKay, S Mitchell - Proceedings of the IEEE, 2004 -
ieeexplore.ieee.org
... system, or an indelible identifier or **key**), it is ... models, while trust policy implements
risk **management**. ... eg, smart cards, hardware **cryptographic** processors, or ...
Cited by 33 - Related Articles - Web Search

PGP in Constrained Wireless Devices - all 8 versions »
M Brown, D Cheung, D Hankerson, JL Hernandez, M ... - usenix.org
... by the constraints of the **PDA**, including limited ... and implement a workable **key
management**
system and ... commercial-strength elliptic curve **cryptography** into PGP's ...
Cited by 78 - Related Articles - Cached - Web Search

Efficient frequency domain selective scrambling of digital video - all 10
versions »
W Zeng, S Lei - Multimedia, IEEE Transactions on, 2003 - ieeexplore.ieee.org
... powered handheld devices such as **PDA** and videophones. ... etc., without having to
access
the **cryptographic key**. ... such as multimedia content **management** and filtering ...
Cited by 83 - Related Articles - Web Search

[PDF] Group **key** establishment in wireless ad hoc networks - all 3 versions »
ER Anton, O Duarte - Workshop em Qualidade de Servico e Mobilidade, 2002 - gta.ufrj.br
... telephones, digital personal assistants (**PDA**), auricular phones ... entities share a
secret **cryptographic key** K. In ... suite consists of **key management** protocols for ...

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P Eronen
E Salvador
C Gehrmann
P Nikander
F Stajano

[PDF] Local **Key** and Certificate Storage in JDK 1.3 - all 3 versions »
O Pirttikoski, Y Kortesniemi - Proceedings of the NordSec2000, Reykjavk, Iceland, October, 2000 - tml.hut.fi
... The benefits of using a **PDA** are due to the ... the device does not have to reveal the **key** as it can ... would be use- ful for applications using **cryptographic** keys and ...
Cited by 1 - Related Articles - View as HTML - Web Search

[PDF] Securing ad hoc Jini services - all 11 versions »
P Eronen, C Gehrmann, P Nikander - Helsinki University of Technology, 2002 - tml.tkk.fi
... For example, the user of a **PDA** can authorize ... so it can imple- ment the authenticated **key** exchange and ... it wishes, but should follow good **cryptographic** principles ...
Cited by 6 - Related Articles - View as HTML - Web Search

Device keys - all 3 versions »
N Asokan, N Valtteri - 2004 - freepatentsonline.com
... THE INVENTION [0002] The present invention relates to **key management** of **cryptographic**
keys, which ... such as cellular telephones and hand-held **PDA**:s (Personal ...
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Method and apparatus for storing data on the application layer in mobile devices
K Code, J Haller, S de Souza, L Moreira, VP Images ... - freepatentsonline.com
... the mobile device, eg a PocketPC based Personal Digital Assistant (**PDA**). ... 0046] The same **cryptographic** mechanism is ... of these files is the symmetric **key** used for ...
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[PDF] Security analysis of the Open Mobile Alliance Device Management protocol
KT Högskolan - dsv.su.se
... summarizes the current major **PDA** or smartphones ... XML security uses traditional **cryptography** algorithms to ... o XML **Key Management** (XKMS) describes the distribution ...
View as HTML - Web Search

Proxy device for enhanced privacy in an RFID system
A Juels, DV Bailey - 2006 - freepatentsonline.com
... telephone, a personal digital assistant (**PDA**), a mobile ... consider the REP as a trusted **personal device**. ... constraints could be capable of public-**key cryptography**. ...
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P Eronen
C Gehrmann
P Nikander
F Stajano

SHAD: a human centered security architecture for partitionable, dynamic and heterogeneous ... - all 7 versions »
ES Salvador - Proceedings of the 1st international doctoral symposium on ..., 2004 - portal.acm.org
... on the human and is based on a **personal device** called PCM ... There is no problem, because
Katia's **PDA** has the ... Separating **key management** from file system security ...
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Complete Computing - all 5 versions »
V Gupta, G Montenegro, J Rulifson - Worldwide Computing and Its Applications, WWCA'98:
Second ..., 1998 - books.google.com
... portable, personal note- book or **PDA**) or communal ... MVPN mechanisms differ in the **key-**
management protocols they ... eliminates the need to carry a **personal device**. ...
Cited by 3 - Related Articles - Web Search

[PDF] Local Key and Certificate Storage in JDK 1.3 - all 3 versions »
O Pirttikoski, Y Kortesniemi - Proceedings of the NordSec2000, Reykjavk, Iceland, October,
2000 - tml.hut.fi
... remains a big obstacle hindering widespread use of cryptography, namely **key**
management. ...
In particular, with small **personal device** such as a **PDA**, that are ...
Cited by 1 - Related Articles - View as HTML - Web Search

[PDF] Securing ad hoc Jini services - all 11 versions »
P Eronen, C Gehrmann, P Nikander - Helsinki University of Technology, 2002 - tml.tkk.fi
... For example, the user of a **PDA** can authorize other users within ... 3.3 Distributed **key**
management ... In the case when the client device is a **personal device** and the ...
Cited by 6 - Related Articles - View as HTML - Web Search

[PDF] Security analysis of the Open Mobile Alliance Device Management protocol
KT Högskolan - dsv.su.se
... table summarizes the current major **PDA** or smartphones ... From a **personal device** point
of view this enables ... o XML **Key Management** (XKMS) describes the distribution ...
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Wu, B.; Wu, J.; Fernandez, E.B.; Magliveras, S.;
Parallel and Distributed Processing Symposium, 2005. Proceedings. 19th IEE
4-8 April 2005 Page(s):8 pp.
Digital Object Identifier 10.1109/IPDPS.2005.393

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☐ 2. **Secure Key Management in Hierarchical Group Communication Using A**
Parvar, H.; Moulavi, M.A.;
Innovations in Information Technology, 2006
Nov. 2006 Page(s):1 - 5
Digital Object Identifier 10.1109/INNOVATIONS.2006.301917

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☐ 3. **Provably·secure public key management protocols for self-organized ad**
Huafei Zhu; Feng Bao;
Personal, Indoor and Mobile Radio Communications, 2005. PIMRC 2005. IEE
Symposium on
Volume 4, 11-14 Sept. 2005 Page(s):2691 - 2695 Vol. 4
Digital Object Identifier 10.1109/PIMRC.2005.1651932

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☐ 4. **Towards solving multicast key management problem**
.Fan Du; Ni, L.M.; Esfahanian, A.-H.;
Computer Communications and Networks, 1999. Proceedings. Eight Internati
11-13 Oct. 1999 Page(s):232 - 236
Digital Object Identifier 10.1109/ICCCN.1999.805524

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Reininger, R.;
Tactical Communications Conference, 1994. Vol. 1. Digital Technology for the
Proceedings of the 1994
10-12 May 1994 Page(s):387 - 388
Digital Object Identifier 10.1109/TCC.1994.472108

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☐   2. **A cost efficient solution for integrated random number generators**
Chitu, S.; Svasta, P.; Popescu, C.;
Electronics Technology: Meeting the Challenges of Electronics Technology Pr
International Spring Seminar on
0-0 0 Page(s):480 - 484
Digital Object Identifier 10.1109/ISSE.2005.1491076

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☐   3. **Detecting Spoofing and Anomalous Traffic in Wireless Networks via For Relationships**
Li, Q.; Trappe, W.;
Information Forensics and Security, IEEE Transactions on
Volume 2, Issue 4, Dec. 2007 Page(s):793 - 808
Digital Object Identifier 10.1109/TIFS.2007.910236

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☐   4. **Light-weight Detection of Spoofing Attacks in Wireless Networks**
Qing Li; Trappe, W.;
Mobile Adhoc and Sensor Systems (MASS), 2006 IEEE International Confere
Oct. 2006 Page(s):845 - 851
Digital Object Identifier 10.1109/MOBHOC.2006.278663

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   Factor, M.; Nagle, D.; Naor, D.; Riedel, E.; Satran, J.;
   Security in Storage Workshop, 2005. SISW '05. Third IEEE International
   13 Dec. 2005 Page(s):11 pp.
   Digital Object Identifier 10.1109/SISW.2005.12

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□   2. **A security policy based upon hardware encryption**
   Harper, S.; Athanas, P.;
   System Sciences, 2004. Proceedings of the 37th Annual Hawaii International
   5-8 Jan. 2004 Page(s):8 pp.
   Digital Object Identifier 10.1109/HICSS.2004.1265453

   AbstractPlus | Full Text: PDF(877 KB)   IEEE CNF
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□   3. **Oasis Digital Signature Services: Digital Signing without the Headaches**
   Pope, N.; Cruellas, J.C.;
   Internet Computing, IEEE
   Volume 10, Issue 5, Sept.-Oct. 2006 Page(s):81 - 84
   Digital Object Identifier 10.1109/MIC.2006.108

   AbstractPlus | Full Text: PDF(200 KB)   IEEE JNL
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□   4. **An efficient group key agreement protocol**
   Bae Eun Jung;
   Communications Letters, IEEE
   Volume 10, Issue 2, Feb. 2006 Page(s):106 - 107
   Digital Object Identifier 10.1109/LCOMM.2006.02021.

   AbstractPlus | Full Text: PDF(111 KB)   IEEE JNL
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□   5. **Wireless Group Security Using MAC Layer Multicast**
   Nyberg, Kaisa; Valkonen, Jukka;

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C Decker

M Beigl

A Krohn

N Asokan

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Device keys - all 3 versions »
N Asokan, N Valtteri - 2004 - freepatentsonline.com
... should include at least one **cryptographic key** in order to enable, eg, future secure, **key** based communication between the **personal device** 100 and ...
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N Asokan, JE Ekberg, L Paatero - 2006 - freepatentsonline.com
... not match the checksum value stored within the **personal device**. ... is powered up, if this **key**-state variable ... book of "Handbook of Applied **Cryptography**" by Alfred J ...
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System and method for authenticating users using image selection
W Jansen - 2004 - freepatentsonline.com
... thumbnail image can serve as a shift **key** for every ... and iteratively applying the one-way **cryptographic** hash, as ... As a **personal device**, there is only one user of ...
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[PDF] PRISM: Enabling Personal Verification of Code Integrity, Untampered Execution, and Trusted I/O on ...
HVC Execution - cylab.cmu.edu
... private **key** is not misused and that neither the private **key** nor the ... and cannot be directly used by people – they require **cryptographic** operations and ...
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A File System for System Programming in Ubiquitous Computing - all 10 versions »
C Decker, M Beigl, A Krohn - Systems Aspects in Organic and Pervasive Computing--ARCS ..., 2005 - books.google.com
... Energy is one of the **key** resources for sensor ... location or data format requirements of the user's **personal device**. ... those middleware services is a **PDA**-like device ...
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[PDF] RESET project Draft Roadmap
D Public - feedback, 2003 - ercim.org
... short calculation times for the **cryptographic** procedures ... is considering innovation as a **key** factor for ... IC packaging and micro-module **assembly**, through existing ...
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... From a **personal device** point of view this enables ... however, XML security uses

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11	INZZ	6 AND 7	unrestricted	116	show titles
12	INZZ	5 AND 6 AND 7	unrestricted	0	-
13	INZZ	device ADJ key	unrestricted	41	show titles
14	INZZ	2 AND 5	unrestricted	5	show titles
15	INZZ	2 SAME 5	unrestricted	5	show titles
16	INZZ	personal ADJ digital ADJ assistant OR mobile OR PDA OR cell OR phone	unrestricted	426394	show titles
17	INZZ	(retriev$4 OR restor$4 OR bring$4) SAME (ID OR identifier) SAME (read OR storage)	unrestricted	44	show titles
18	INZZ	secure ADJ processing	unrestricted	15	show titles

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Patents

Patents **1 - 46** on **"secure processing" cryptographic key**. (0.05 seconds)

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Method and apparatus for **secure processing** of **cryptographic** keys
US Pat. 6557104 - Filed May 2, 1997 - Phoenix Technologies Ltd.
Secure processing of the **cryptographic key** is thus obtained without the need for
any additional hardware. BRIEF DESCRIPTION OF THE DRAWINGS 25 The exact ...

Data communications system using public **key** cryptography in a web environment
US Pat. 6424718 - Filed Jun 11, 1997 - International Business Machines Corporation
Preferably, the **secure processing** means is operable, when executed in the ...
in the client via the **secure processing** means the **cryptographic key** processing ...

Uniform interface for **cryptographic** services
US Pat. 5029206 - Filed Dec 27, 1989 - Motorola, Inc.
A security kernel of a **secure processing** system for response to said means for
key management to create, providing **cryptographic, key** management and system ...

Public **key** data communications system under control of a portable security ...
US Pat. 5604801 - Filed Feb 3, 1995 - International Business Machines Corporation
Server 130 generates in step 751 the following **cryptographic** keys for ... with a
key encrypting **key**, the server comprising **secure processing** means (360) to ...

Dynamic configuration of a **secure processing** unit for operations in various ...
US Pat. 5883956 - Filed Mar 28, 1996 - National Semiconductor Corporation
More specifically, this invention relates to **cryptographic** techniques for ...
For instance, the identifying **key** or password that a bank customer uses to ...

Secure processor with external memory using block chaining and block re-ordering
US Pat. 6061449 - Filed Oct 10, 1997 - General Instrument Corporation
11 program information between a storage device and a **secure processing** circuit
... **Cryptographic key** data from an associated storage device may be used for ...

Programmable **cryptographic processing** system and method
US Pat. 6101255 - Filed Apr 30, 1997 - Motorola, Inc.
Tasks and subroutines that perform **secure processing** or handle sensitive data
... Examples of other application software running would include session **key** ...

Method and system for managing data unit **processing**
US Pat. 6081895 - Filed Oct 10, 1997 - Motorola, Inc.
The present invention also provides a **cryptographic** controller and method which are
... that do not perform **secure processing** or handle sensitive data. ...

Apparatus for providing a **secure processing** environment
US Pat. 6385727 - Filed Sep 25, 1998 - Hughes Electronics Corporation
An explanation of many such **cryptographic** techniques including an ... Thus, the

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Patents Patents **1 - 33** on **"secure processing" (device OR PDA OR mobile) cryptographic key.** (0.04 sec

Sort by relevance | Sort by date (new first) | Sort by date (old first)

Method and apparatus for secure processing of cryptographic keys
US Pat. 6557104 - Filed May 2, 1997 - Phoenix Technologies Ltd.
Secure processing of the **cryptographic key** is thus obtained without the need for
... The "token" may include any type of removable physical storage **device**, ...

Data communications system using public key cryptography in a web environment
US Pat. 6424718 - Filed Jun 11, 1997 - International Business Machines Corporation
A portable security **device** controls the public **key** processing by ... in the client
via the **secure processing** means the **cryptographic key** processing for the ...

Public key data communications system under control of a portable security ...
US Pat. 5604801 - Filed Feb 3, 1995 - International Business Machines Corporation
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key encrypting **key**, the server comprising **secure processing** means (360) to ...

Dynamic configuration of a secure processing unit for operations in various ...
US Pat. 5883956 - Filed Mar 28, 1996 - National Semiconductor Corporation
The signing process is performed securely inside the protected boundaries of the
cryptographic device. This **device** authentication **key** is registered with the ...

Secure processor with external memory using block chaining and block re-ordering
US Pat. 6061449 - Filed Oct 10, 1997 - General Instrument Corporation
11 program information between a storage **device** and a **secure processing** circuit
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Apparatus for providing a secure processing environment
US Pat. 6385727 - Filed Sep 25, 1998 - Hughes Electronics Corporation
An explanation of many such **cryptographic** techniques including an explanation
... If a hacker is able to fool a **device** containing **key** material into entering ...

Method and apparatus for centralizing processing of key and certificate life ...
US Pat. 6055636 - Filed Jan 27, 1998 - Entrust Technologies, Limited
The **secure processing** module 28 secures the data provided by one of the applications
36, but does not perform the **key** and certificate life cycle ...

Secure processing for authentication of a wireless communications device
US Pat. 6201871 - Filed Aug 19, 1998 - Qualcomm Incorporated
The **device** 100 and the secure processor 104 generate an A-**Key**. ... In another
form of authentication, the **mobile** switching center may broadcast the ...

Secure processing unit systems and methods
US Pat. 7124170 - Filed Aug 21, 2000 - Intertrust Technologies Corp.
They are also non-intrusive to the overall **device** architecture and ... a unique

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(secure processing) with (device OR PDA) wi[Search Patents]   Advanced Patent Sear
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Patents   Patents **1 - 10** on **(secure processing) with (device OR PDA)**. (**0.06** seconds)

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Secure processing for authentication of a wireless communications device
US Pat. 6201871 - Filed Aug 19, 1998 - Qualcomm Incorporated
Secure ... device ...

Data processing device formed on a single semiconductor substrate having ...
US Pat. 4521852 - Filed Jun 30, 1982 - Texas Instruments Incorporated
United States Patent Guttag [] Patent Number: [45] Date of Patent: [54] DATA
PROCESSING DEVICE FORMED ON A SINGLE SEMICONDUCTOR SUBSTRATE HAVING **SECURE** ...

Secure gateway processing for handheld device markup language (HDML)
US Pat. 6334056 - Filed May 28, 1999 - Qwest Communications Int'l., Inc.
25,2001 Sheet of WIRELESS HANDHELD **DEVICE** ATTEMPTS TO ACCESS CORPORATE INTRANET
FROM A KNOWN IRELESS SERVIC ...

Method and apparatus for centralizing processing of key and certificate life ...
US Pat. 6055636 - Filed Jan 27, 1998 - Entrust Technologies, Limited
1 illustrates a schematic block diagram of a **secure** communication **device** 10 or
... The **secure processing** module 28 secures the data provided by one of the ...

Gaming device security system: apparatus and method
US Pat. 6364769 - Filed May 22, 2000 - Casino Data Systems
The gaming 15 **device** is based around the **secure processing** area which includes
a random number generator, an accounting and log means operatively coupled to ...

Method and apparatus for operating a secure metering device
US Pat. 6341274 - Filed Jul 21, 1999 - Neopost Inc.
The **secure processing** is performed by circuitry within the metering **device** to
which the smartcard is inserted. In an embodiment, for each **secure** transaction ...

Apparatus for providing a secure processing environment
US Pat. 6385727 - Filed Sep 25, 1998 - Hughes Electronics Corporation
In other words, for a **device** to be deemed **secure**, an attacker having access to all
... a **secure processing** environment is provided. The apparatus includes a ...

Gaming device security system: apparatus and method
US Pat. 6071190 - Filed May 21, 1997 - Casino Data Systems
For one thing, the present invention provides a video and slot gaming **device**
security system including two **processing** areas linked together via a **secure** ...

Method and apparatus for performing secure processing of postal data
US Pat. 6381589 - Filed Dec 16, 1999 - Neopost Inc.
Local host computer 210 includes a **secure processing** unit 240 that 5 ... I/O 45
output devices such as a printer 330 and a communication (comm) **device** 360. ...

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Patents

Patents **1 - 10** on (secure processing) with (device OR PDA). (0.06 seconds)

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